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| APPLICATION NO.   | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|----------------------|---------------------|------------------|
| 10/541,587  | 11/16/2005  | Hidehiko Sugimoto    | 274749US2XPCT       | 1995             |
| 22850 7590 09/25/2008 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET |             |                      | EXAMINER            |                  |
|   |             |                      | BARRERA, RAMON M    |                  |
| ALEXANDRIA, VA 22314  |             |                      | ART UNIT            | PAPER NUMBER     |
|   |             | 2832                 |                     |                  |
|   |             |                      |                     |                  |
|   |             |                      | NOTIFICATION DATE   | DELIVERY MODE    |
|   |             |                      | 09/25/2008          | ELECTRONIC       |

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

|   | Application No.   | Applicant(s)   |  |  |  |
|---|---|--|--|--|--|
|   | 10/541,587  | SUGIMOTO ET AL.  |  |  |  |
| Office Action Summary   | Examiner  | Art Unit   |  |  |  |
|   | RAMON M. BARRERA  | 2832   |  |  |  |
| The MAILING DATE of this communication app<br>Period for Reply  | ears on the cover sheet with the c  | orrespondence address  |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | N. nely filed the mailing date of this communication. D (35 U.S.C. § 133). |  |  |  |
| Status  |   |  |  |  |  |
| Responsive to communication(s) filed on 11 Au     This action is <b>FINAL</b> . 2b)☑ This     Since this application is in condition for allowar closed in accordance with the practice under E   | action is non-final.<br>nce except for formal matters, pro  |  |  |  |  |
| Disposition of Claims   |   |  |  |  |  |
| 4)  Claim(s) 1,3,5-8 and 11-13 is/are pending in the 4a) Of the above claim(s) 1,3,5 and 6 is/are with 5)  Claim(s) is/are allowed.  6)  Claim(s) 7,8 and 11-13 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/or are subject to restriction and/or are subject to by the Examine 10)  The specification is objected to by the Examine 10)  The drawing(s) filed on 16 November 2005 is/are Applicant may not request that any objection to the or   | ndrawn from consideration.  relection requirement.  r. re: a)⊠ accepted or b)□ object drawing(s) be held in abeyance. See   | e 37 CFR 1.85(a).  |  |  |  |
| Replacement drawing sheet(s) including the correcti  11) The oath or declaration is objected to by the Ex-  |   | •  |  |  |  |
| Priority under 35 U.S.C. § 119  |   |  |  |  |  |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☒ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received. |   |  |  |  |  |
| Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 7/7/05.  | 4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:  | ate  |  |  |  |

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#### **DETAILED ACTION**

#### Election/Restrictions

1. Claims 1, 3, 5, and 6 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 8/11/08.

### Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 7, 8, and 11-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claim 7, antecedent basis is lacking for "the fixed sides". Claims 8 and 12-13 inherit the defect in their parent claim.

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 7, 8, and 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yanagi, et al. (US 6,111,490).

Yanagi in fig. 31 and col. 21, line 54 through col. 22, line 2, discloses the claimed invention including a teaching to use the machine as either a motor or generator. Fig.

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10 discloses the magnetic field sensor and high temperature superconducting material is disclosed in col. 8. Yanagi did not disclose wherein the pairs of armature coils is an integral multiple of three or the superconductors is an integral multiple of two. It would have been an obvious matter of design choice to employ pairs of armature coils in integral multiples of three, since applicant has not disclosed that this solves any stated problem or is for any particular purpose and it appears that the invention would perform equally well with integral multiples of any number. Furthermore, it would have been an obvious to employ a non superconducting disk with superconducting portions rather than using a unitary superconducting disk for the purpose of conservation of expensive superconducting material. Finally, an embodiment having six pairs of armature coils and a disk having a matching six pairs of superconducting portions, in contrast with Yanagi's eight, would have been an obvious matter of design choice since applicant has not disclosed that the number of coils or superconducting portions solves any stated problem or is for any particular purpose.

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited references disclose machines having disks of superconducting material.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to RAMON M. BARRERA whose telephone number is (571)272-1987. The examiner can normally be reached on Monday through Friday from 11 to 5PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin G. Enad can be reached on (571) 272-1990. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ramon M Barrera/ Primary Examiner, Art Unit 2832

rmb